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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2.  Applicant claims small entity status.  
See 37 CFR 1.27.
3.  Specification [Total Pages ]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.  INFORMAL Drawing(s) (35 U.S.C. 113) [ Total Sheets  ]
5. Oath or Declaration [ Total Pages  ]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
    - i.  DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.  Application Data Sheet. See 37 CFR 1.76

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No. \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

|  |   |          |  |
|--|---|----------|--|
| <input type="checkbox"/> Customer Number or Bar Code Label |  |          | or <input type="checkbox"/> Correspondence address below |
| Name   | 27645   |          |  |
| Address  | PATENT TRADEMARK OFFICE   |          |  |
| City   | State   | Zip Code |  |
| Country  | Telephone   | Fax      |  |

|                   |   |  |                                   |             |
|-------------------|---|--|-----------------------------------|-------------|
| Name (Print/Type) | CYN. ALWORTH  |  | Registration No. (Attorney/Agent) | 33,824      |
| Signature         |  |  | Date                              | 25 Oct 2001 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
 Utility Patent Application Charge Sheet  
 National Application under 35 U.S.C. § 371

The Commissioner of Patents and Trademarks  
 Washington, D.C. 20231

Sir:

Transmitted herewith for Entering the National Stage in the United States under Article 39(1)(a) of the Paris Convention and under 35 U.S.C. § 371 is the National Stage Entry Application of inventor(s):

Stephen John McLoughlin

For "Apparatus and Method for Transmitting Information to and Communicating with a Downhole Tool";

Enclosed are also:-

- PCT International Specification PCT/GB00/01629 (with drawings and search report) designating the United States
- Entry to United States National Stage and substitute pages (amendment of PCT claims)
- PCT Request
- PCT Demand
- PCT/EPC Written Opinion
- Declaration and Power of Attorney
- Self-addressed stamped postcard receipt.
- Certificate of Express Mailing

FILLING FEE

| Claims as Filed<br>For             | Number<br>Filed | Less | Number<br>Extra | Small<br>Rate | Entity<br>FEE | O<br>R | Other<br>Small<br>Rate | than<br>Entity<br>FEE |
|------------------------------------|-----------------|------|-----------------|---------------|---------------|--------|------------------------|-----------------------|
| Basic Fee Under 37 CFR 1.492(a)(5) | 20              |      |                 |               | \$455         |        |                        | \$890                 |
| Total Claims                       | 20              | - 20 | 8               | \$9           | \$0           |        | \$18                   | \$0                   |
| Independent Claims                 | 3               | - 3  | 0               | \$42          | \$0           |        | \$84                   | \$0                   |
| Multiple Dependent Claims          | no              |      |                 |               |               |        |                        |                       |
| <b>TOTAL FEES CLAIMS</b>           |                 |      |                 |               | <b>\$455</b>  |        |                        | <b>\$890</b>          |

OTHER FEES - none

Firm's check Number 002883 in the amount \$455.00 is enclosed.

Respectfully submitted



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ATTORNEYS FOR APPLICANT

Docket Number 01 USN 152  
Client - Marks & Clerk

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**PATENT APPLICATION**  
**UNDER 35 U.S.C. § 371**

Applicant: McLoughlin, Stephen John Date: October 25, 2001  
Serial Number: To Be Assigned Examiner:  
Filing Date: October 25, 2001 Art Unit:  
Title: Apparatus and Method for Transmitting Information to and  
Communicating with a Downhole Tool

**CERTIFICATE OF EXPRESS MAILING**

Pursuant to Rule 1.10, I, the undersigned Attorney for the Applicant, do hereby certify and declare, subject to penalty of perjury, that the foregoing National Entry under 35 U.S.C. Section 371 in the above-noted patent application was properly mailed, with proper postage prepaid, to the U.S. Patent and Trademark Office on the 25<sup>th</sup> day of October, 2001, by Express Mail, Receipt Number EL 821972595 US. Pursuant to the same rule, the Commissioner is hereby respectfully requested to assign the filing date as the date of Express Mailing, namely October 25, 2001.



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EL821972595US

Docket No: 01 USN 152  
Client: Marks & Clerk

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**PATENT APPLICATION**  
**UNDER 35 U.S.C. § 371**

Applicant: McLoughlin, Stephen John Date: October 25, 2001  
Serial Number: To Be Assigned Examiner:  
Filing Date: October 26, 2001 Art Unit:  
Title: Apparatus and Method for Transmitting Information to and  
Communicating with a Downhole Tool

**Statement of National Filing and Substitution of certain PCT Pages**

Assistant Commissioner for Patents  
The United States Patent and Trademark Office  
Washington DC 20231

Dear Sir:

Enclosed, under the Rules of the Office, under 35 U.S.C. § 371, and under the Patent Cooperation Treaty, are the necessary documents for entry into the United States National Stage of a PCT Application.

These documents are:

1) A complete copy of the International Application PCT/GB96/00813 including

- a) PCT Request,
- b) PCT Demand,
- c) PCT International Publication with Search Report,
- d) PCT/EPC written opinion,
- e) New amended pages 16 to 18 (replacing pages 16 to 19 in the original PCT application),

2) Firm's check in the amount of \$445.00 (small entity),

3) Declaration and Power of Attorney.

Inventor McLoughlin is a citizen of the United Kingdom. His address is The

Homestead, North Duffield, Near Selby, Yorkshire, United Kingdom.

The base PCT Application PCT/GB00/01629 designated the United States, was filed on 27 April 2000, and was published on 2 November 2000 as WO/0065198. The application claims priority from the following applications:

|                          |                 |           |
|--------------------------|-----------------|-----------|
| United States of America | 27 April 1999   | 60/131208 |
| United Kingdom           | 9 November 1999 | 9926545.6 |

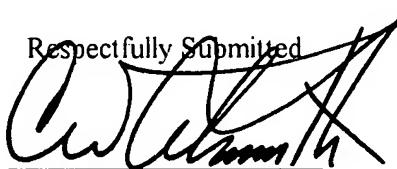
The original PCT application claim structure uses a series of multiple dependent claims, most of which are improper under the Rules of the United States Patent and Trademark Office. Additionally an improper omnibus claim also appears in the PCT claim structure.

Please accept new amended pages 16 to 18, which correct the improper claims in the PCT application to meet the requirements of the Rules of the United States Patent and Trademark Office. These pages REPLACE pages 16 to 19 in the original PCT application. The amended pages containing amended claims **DO NOT** add new matter.

The applicant qualifies as a Small Entity and therefore may pay reduced fees.

It is therefore believed that the correct filing fees have been submitted herewith and that the PCT Application is in proper condition for receiving a filing date under Entry into the National Stage under 35 U.S.C. Section 371 and 37 C.F.R. 1.495.

Respectfully Submitted



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